

PATENT
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ABSTRACT

A clamp mechanism for actively coupling an in-well seismic station to the casing of a well is disclosed. The clamp mechanism is capable of associating a sensor to production tubing for deployment in the well and is capable of actively coupling the sensor to the casing of the well. The clamp mechanism includes a body capable of being coupled to the deployment member. A carrier mechanism is attached to the sensor and positions adjacent the body. A release mechanism releases the carrier mechanism when subjected to a predetermined pressure in the well or when subjected to fluid in the well for a predetermined amount of time. A biasing mechanism is disposed between the body and the carrier mechanism and displaces the carrier mechanism with attached sensor towards the surface of the casing when released. A guiding mechanism guides the displacement of the carrier mechanism towards the surface of the casing.